

Product datasheet for **RG233917**

TMEM161A (NM_001256766) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM161A (NM_001256766) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM161A
Synonyms:	AROS-29; AROS29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233917 representing NM_001256766 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGTCTCGGAGTACAGCTGGTGGTGACCCTGCTCACTGCCACCCTCATGCACAGGCTGGCGCCAC
 ACTGCTCCTTCGCGCGCTGGCTGCTCTGTAAACGGCAGTTTGTTCGATACAAGCACCCGCTCTGAGGAGGA
 GCTTCGGGCCCTGGCGGGAAGCCGAGGCCAGAGGCAGGAAAGAGCGGTGGGCAATGGCCTTAGTGAG
 GAGAAGCCACTGTCTGTGCCCCGAGATGCCCGTTCCAGCTGGAGACCTGCCCCCTCACGACCGTGGATG
 CCCTGGGTCTGGCCAGCATGACCCAGAAGCTTAGAGCCACTTCTGAAGAAGCAGGGCTGGGACTGGGCGCT
 TCCTGTGGCCAAGCTGGCTATCCGCGTGGGACTGGCAGTGGTGGGCTCTGTGCTGGGTGCCTTCCTCACC
 TTCCCAGGCCTGCGGCTGGCCCAGACCCACCGGACGCACTGACCATGTGCGGAGGACAGACCCATGCTGC
 AGTTCTCCTCTGCACACAGCTTCTGTCTCCCCTGTTTCCTGTGGCTCTGGACAAAGCCATTGCACG
 GGACTTCTCTGCACAGCCGCCGTTTGGGAGACGCGTTTCTCCCTGCTGTCCGATTCTGCCTTCGACTCT
 GGGCGCCTCTGGTTGCTGGTGGTGTCTGTGCCTGCTGCGGCTGGCGGTGACCCGGCCCCACCTGCAGGCCT
 ACCTGTGCTGGCCAAGGCCCGGTGGAGCAGCTGCGAAGGGAGGCTGGCCGCATCGAAGCCCGTGAAAT
 CCAGCAGAGGGTGGTCCGAGTCTACTGCTATGTGACCGTGGTGGCTTGCAGTACCTGACGCCGCTCATC
 CTCACCTCAACTGCACACTTCTGCTCAAGACGCTGGGAGGCTATTCTGGGGCCTGGGCCAGCTCCTC
 TACTATCCCCGACCCATCCTCAGCCAGCGCTGCCCCATCGGCTCTGGGAGGACGAAGTCCAGCAGAC
 TGCAGCGCGGATTGCCGGGCTCTGGGTGGCTGCTTACTCCCTCTTCTCCGTGGCGTCTGGCCTAC
 CTCATCTGGTGGACGGCTGCCTGCCAGCTGCTGCCAGCCTTTTCGGCCTCTACTTCCACCAGCACTTGG
 CAGGCTCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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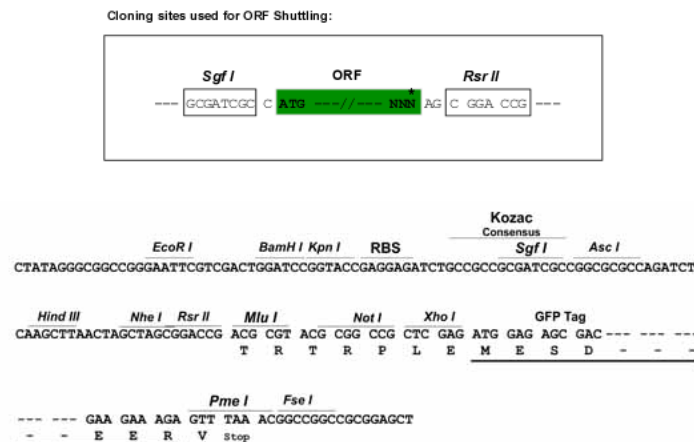
Protein Sequence: >RG233917 representing NM_001256766
 Red=Cloning site Green=Tags(s)

MAVLGVQLVVTLLTATLMHRLAPHCSFARWLLCNGSLFRYKHPSEELRALAGKPRPRGRKERWANGLSE
 EKPLSVPRDAPFQLETCLPTTVDALGLASMTQNLEPLLKKQGWWDALPVAKLAIRVGLAVGVSVLGAFLT
 FPGLRLAQTHRDALTMSEDRPMLQFLLHTSFLSPLFILWLTKPIARDFLHQPPFGETRFSLLSDSAFDS
 GRLWLLVVLCLLRLAVTRPHLQAYLCLAKARVEQLRREAGRIEAREIQQRVVRVYCVTVVSLQYLTPLI
 LTLNCTLLKTLGGYSWGLGPAPLLSPDPSSASAAPIGSGEDEVQQTAAARIAGALGGLLTPLFLRGVLAY
 LIWWTAAQCQLLASLFGLYFHQLAGS

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001256766

ORF Size: 1128 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_001256766.2

RefSeq Size: 1518 bp

RefSeq ORF: 1131 bp

Locus ID: 54929

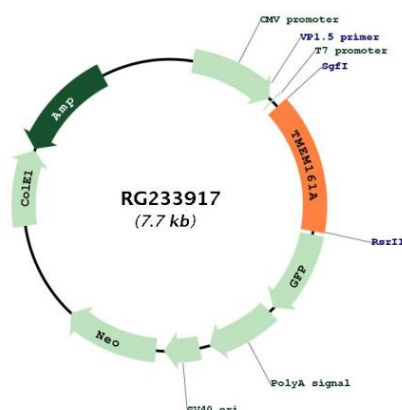
UniProt ID: Q9NX61

Cytogenetics: 19p13.11

Protein Families: Transmembrane

Gene Summary: May play a role in protection against oxidative stress. Overexpression leads to reduced levels of oxidant-induced DNA damage and apoptosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG233917